BY ORDER OF THE
SECRETARY OF THE AIR FORCE

AFMS 41D1
3 May 1996

Manpower Standard

★ *FUELS MANAGEMENT*

★This Air Force Manpower Standard (AFMS) quantifies the manpower required to accomplish the tasks described in the process oriented description for varying levels of workload. The mission of this flight is to manage, store, and distribute all petroleum products, oils, lubricants, missile propellants, and cryogenics products. This is a peacetime AFMS. This standard applies to CONUS and overseas Air Force installations in AMC, ACC, PACAF, USAFE, AETC, AFSOC, and AFMC. Excluded are AF Reserve, Air National Guard, and bases that are scheduled for closure. This AFMS does not apply to flights that have been cost compared (OMB Circular A-76). This AFMS does not apply to Bolling AFB, Hanscom AFB, Lackland AFB, Maxwell AFB, or F.E. Warren AFB. Bases should develop negative variances to account for processes not performed or performed by contract and positive variances for processes performed but not included in the AFMS. Andersen AB, Edwards AFB, Hickam AFB, Incirlik AB, Keesler AFB, Lajes AFB, Mildenhall AB, and Yokota AB use the manpower equation in paragraph 2.3.3 below. Approved variances 1, 2, and 3 at Attachment 3 do not apply to these locations. All other bases use the manpower equation in paragraph 2.3.1 or 2.3.2, as appropriate; and variances 1, 2, and 3 do apply. MAJCOMs may incorporate a 2 percent flexibility factor in the application of this AFMS. Upon completion of the application, 2 percent of the total MAJCOM manpower resources allocated for Base Fuels may be aligned/realigned within the command, within Base Fuels, to meet mission requirements. AFI 23-201, *Fuels Management*, provides policy and procedural guidance for this work center. This standard is the result of objective flight Phase I & II studies and has been developed in accordance with policy and guidance from the Air Staff and AFMAN 38-208, *Air Force Management Engineering Program (MEP)*. Send comments and suggested improvements on AF Form 847**, Recommendation for Change of Publication**, through channels, to AFMEA/AEDA, 550 E Street East, Randolph AFB, Texas 78150-4451.

★*SUMMARY OF CHANGES*

This AFMS supersedes AFMS 41D1, 21 November 1994. It implements format changes to comply with SAF requirements. It also includes minor administrative changes in the overall layout of the AFMS. The equations in the manuscript, paragraphs 2.3.1, 2.3.2, and 2.3.3, are revised. The wording in paragraphs 2.4 and 2.5 is changed. Attachment 3, Approved Variances, is revised as follows: Variance 9, Positive Technological Variance for Excessive Water Removal for MacDill AFB is validated at +1; variance 4, positive Mission Variance for Cryogenics Production Plant added Yokota AB at a +4; variance 28, Production Technical Residency, is now part of the MacDill Fuels Flight (previously Seymour Johnson), and the operational review and the minimum manpower computations validated an impact change from +3 to +7; the variance for Reheating Water Trucks is no longer required and was deleted; and the Negative Mission Variance for Six-Day Work Week was deleted. Changes are identified with a ★.

1. Core Composition. The core composition of this AFMS was developed for base fuels to support an objective wing having 72 fighters, 48 tactical airlifters, or 38 bombers/tankers/strategic airlifters as defined in Attachment 5.

1.1. **Core Manpower Requirement.** 67

1.2. **Core Manpower Range.** 16 - 132

Supersedes AFMS 41D1, 21 November 1994
OPR: AFMEA/AEDA (SMSgt Phillip E. Brown)
Certified by: AFMEA/AED (Lt Col Rudy K. Bruback)
Pages: 21/Distribution: F

★1.3. **Major Programming Factor.** Primary Aircraft Inventory

2. Standard Data:

2.1. **Approval Date.** April 1996

2.2. **Manpower Data Source.** Workshop Measurement

2.3. **Manpower Equations:**
★2.3.1. Y = 22 + .45X1 (when aircraft equivalents < or = 140)
★2.3.2. Y = 71 + .10X1 (when aircraft equivalents > 140)
★2.3.3. Y = X2/(.01045 + .01003X2)

2.4. **Workload Factors:**
★2.4.1. **(X1):**
★2.4.1.1. **Title.** Primary Aircraft Inventory Equivalent.
2.4.1.2. **Definition.** The weighted sum of all aircraft authorized at a location.
★2.4.1.3. **Source.** MAJCOMs should use the most current PAI source document for application.
★2.4.2. **(X2):**
2.4.2.1. **Title.** Total Gallons of Fuel Issued (in Millions).
2.4.2.2. **Definition.** Average monthly gallons (in millions) of fuel and other products issued by base fuels (not to include contractor-issued products).
★2.4.2.3. **Source.** Fuels Automated Management System (FAMS). Sum total gallons for all fuel and other products contained in the Aviation Selected Parameter Report.

2.5. **Points of Contact:**
2.5.1. **Functional Representative.** CMSgt John A. Anaya, HQ USAF/LGSP
2.5.2 **AFMEA Representatives.** SMSgt Phillip E. Brown & SSgt Vernon Griego, AFMEA/AEDA.

3. Application Instructions:

3.1. **Equations 2.3.1 and 2.3.2:**
3.1.1. **Step 1.** Count the number of each type of aircraft authorized to the location. The number of each aircraft may be found on several lines. Make sure to count all aircraft authorized at the location. (Example, base X has 10 F-16s, 12 B-52s, and 14 C-130s authorized.)
3.1.2. **Step 2.** Determine the aircraft equivalent. This is done by first multiplying the aircraft types by their respective type ratio as follows: Multiply number of fighters by 1.39. Multiply number of tactical airlifters by 2.08. Multiply number of bombers/tankers/strategic airlifters by 2.63. Sum the results. (Aircraft types are given in Attachment 5.)

Example: Base X has 10 F-16s, 12 B-52s, and 14 C-130s.

10 Fighters	x	1.39 = 13.90
12 Bombers	x	2.63 = 31.56
14 Tac. Airlift	x	2.08 = 29.12

Aircraft equivalent = 13.90 + 31.56 + 29.12 = 74.58. Substitute this value for "X" in the manpower equation.

★3.1.3. **Step 3.** Determine variance manpower applicable to your location (see Attachment 3). Sum the applicable man-hours for your base. Convert this man-hour total to fractional manpower by dividing by the appropriate Manpower Availability Factor (MAF).
3.1.4. **Step 4.** Add or subtract the fractional manpower obtained from each variance in Step 3 to the fractional manpower obtained in Step 2. Round up to the next whole manpower value.

3.2. **Equation 2.3.3.** For bases using equation 2.3.3 (see applicability statement), count average gallons of fuel issued on a monthly basis. Divide the count by one million and substitute it for X in the ratio equation provided. This provides the fractional manpower for your location, plus approved variances.

4. Statement of Conditions. This flight's normal hours of operation are 24 hours a day, 7 days a week. No environmental or physiological factors were identified that had a manpower impact upon this flight.

BENJAMIN N. CHAPMAN, Lt Col, USAF
Chief, Plans & Productivity Division

Attachments
1. Process Oriented Description
2. Standard Manpower Table
3. Approved Variances
4. Process Analysis Summary
5. Aircraft Equivalents

PROCESS ORIENTED DESCRIPTION

FUELS MANAGEMENT

A1.1. PERFORMS FUELS MANAGEMENT:
A1.1.1. **MANAGES PERSONNEL.** Indoctrinates personnel, rates performance, prepares evaluation, indorses evaluation, nominates personnel/unit for recognition, and monitors management improvement projects.
A1.1.2. **SUPERVISES PERSONNEL.** Schedules personnel, develops directive, directs work center activity, and counsels personnel.
A1.1.3. **MANAGES FLIGHT ACTIVITIES.** Reviews incoming/outgoing distribution, reviews/prepares report and statistical data, develops budget estimate, prepares/submits facility and equipment upgrade project, conducts facility/equipment inspections, investigates mishap or incident, receives and assists visiting officials, conducts energy conservation program, and manages environment protection program.

A1.2. PERFORMS FUELS OPERATIONS:
A1.2.1. **MANAGES SECTION ACTIVITY.** Informs superior, checks work in progress to insure compliance with directive, coordinates section activity, performs inspection of section, and improves customer support.
A1.2.2. **ADMINISTERS/MANAGES PERSONNEL.** Indoctrinates personnel, rates performance, nominates personnel for award/decoration, reviews personnel requirement, ensures availability of personnel, counsels personnel, and hires civilian employee.
A1.2.3. **PERFORMS ADMINISTRATION.** Drafts communication, reviews report (including statistical data and transaction document), reviews incoming/outgoing communication, develops budget estimate, investigates accident or incident on section personnel, receives and assists visiting official, conducts meeting, develops directive, manages special interest project, conducts environmental compliance program, and implements directed change, answers inquiry.
A1.2.4. **PERFORMS MISSION SUPPORT.** Plans operational support requirement, controls vehicle program, and manages support equipment.

A1.3. OPERATES FUELS CONTROL CENTER:
A1.3.1. **PERFORMS FUELS CONTROL.** Receives and coordinates request, dispatches fuels operator, receives and records information, receives and files fuels clipboard, coordinates operator assistance request, maintains record of specific data, completes transaction summary, maintains fuels control status board console and personnel qualifications roster, embosses and issues fueling identaplate, maintains and controls fuels facility and equipment logs and status, and controls and implements emergency response actions.
A1.3.2. **PERFORMS EXPEDITER OPERATIONS.** Observes and evaluates daily work plan and operation, provides transportation, resolves operational and maintenance problem, assists operator in refueling operation, and conducts special inspections and security checks.

A1.4. PERFORMS QUALITY CONTROL AND INSPECTION:
A1.4.1. **INSPECTS QUALITY CONTROL.** Performs quarterly inspection, external inspection, spot check, special subject inspection, and follow-on inspection. Provides technical assistance, manages mishap inspection program, and reports material deficiency.
A1.4.2. **PERFORMS QUALITY CONTROL TESTING.** Schedules, obtains, analyzes and documents petroleum, cryogenics and demineralized water sample and forwards sample to area laboratory.
A1.4.3. **MAINTAINS LABORATORY EQUIPMENT.** Maintains equipment, delivers sample bottle and sampler, disposes of tested fuel and chemical, and maintains crashed aircraft sampling kit.
A1.4.4. **PERFORMS TRAVEL.** Travels to and from inspection/evaluation location.

A1.5. PERFORMS ACCOUNTING AND ADMINISTRATION:
A1.5.1. **PERFORMS ACCOUNTING.** Audits accountable document. Encodes USAF vehicle identification link, coordinates resupply, prepares report, performs travel, computes gain/loss tolerance analysis, performs conservation analysis, operates computer remote, reviews computer management product, maintains document control file, and monitors resupply contract.

A1.5.2. **PERFORMS ADMINISTRATION.** Types correspondence; processes distribution; maintains file, form, and publication; and performs other related administrative functions.

A1.6. SUPPORTS FUEL FLIGHT:

A1.6.1. **ADMINISTERS FUELS TRAINING.** Evaluates individual training requirement, develops and conducts training program, reviews training documents, schedules training, develops publication familiarization program, and maintains WAPS study materiel.

A1.6.2. **PERFORMS MATERIEL CONTROL.** Develops and updates supply/equipment budget forecast, establishes/maintains bench stock support, processes equipment request, processes equipment receipt/turn-in, conducts inventory, maintains custodian document, obtains expendable supplies, and processes personal clothing/equipment requirement.

A1.6.3. **PERFORMS MOBILITY SUPPORT.** Researches and provides mobility support plans information, monitors/evaluates mobility status of personnel and equipment, schedules and conducts mobility training, attends mobility status briefing, and prepares for deployment/redeployment.

A1.7. STORES AND DISTRIBUTES FUEL:

A1.7.1. **PERFORMS MOBILE/HYDRANT OPERATION.** Performs travel, issues/defuels fuels or other products.

A1.7.2. **PERFORMS HYDRANT PUMPHOUSE OPERATION.** Performs hydrant pumphouse operation, operates hydrant truck fillstand.

A1.7.3. **PERFORMS VEHICLE AND EQUIPMENT MAINTENANCE.** Transports vehicle and equipment; reviews and coordinates scheduled maintenance; performs vehicle/equipment preventive maintenance checkpoint inspection.

A1.7.4. **RECEIVES PRODUCT.** Travels for product receipt; receives petroleum, cryogenics and associated products; and receives product returned to storage.

A1.7.5. **ISSUES PRODUCT FROM STORAGE.** Travels for product issue; issues petroleum, cryogenics and associated product.

A1.7.6. **INVENTORIES PRODUCT.** Travels for product inventory; inventories petroleum, cryogenics and associated product.

A1.7.7. **INSPECTS AND MAINTAINS FACILITIES.** Performs inspection and maintenance of petroleum, cryogenics and associated product facilities.

STANDARD MANPOWER TABLE

WORK CENTER/FAC			**APPLICABILITY MAN-HOUR RANGE**								
FUELS MANAGEMENT FLIGHT/41D1			2426.57 - 21210.79								
AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT									
Fuels Manager	2F000	CMS									
Fuels Superintendent	2F091	SMS			1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	TSG	1	1	1	1	2	2	2	2	2
Fuels Journeyman	2F051	SSG	3	3	3	4	4	4	4	4	4
Fuels Journeyman	2F051	SRA	5	5	5	5	5	6	6	7	7
Fuels Apprentice	2F031	A1C	5	6	6	6	6	6	7	7	8
Information Mgmt Jrnymn	3A051	SSG									
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			16	17	18	19	20	21	22	23	24
AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT						1	1	1	1
Fuels Manager	2F000	CMS									
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	1	1	1	1	2	2	2	2	2
Fuels Craftsman	2F071	TSG	2	2	2	2	2	2	3	3	3
Fuels Journeyman	2F051	SSG	4	5	5	6	6	6	6	6	6
Fuels Journeyman	2F051	SRA	8	8	8	8	8	8	8	9	9
Fuels Apprentice	2F031	A1C	8	8	9	9	9	9	9	9	10
Information Mgmt Jrnymn	3A051	SSG									
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			25	26	27	28	29	30	31	32	33

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STANDARD MANPOWER TABLE

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FUELS MANAGEMENT FLIGHT/41D1	2426.57 - 21210.79

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT	1	1	1	1	1	1	1	1	1
Fuels Manager	2F000	CMS									
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	2	2	2	2	2	2	2	2	2
Fuels Craftsman	2F071	TSG	3	3	3	3	3	3	3	3	3
Fuels Journeyman	2F051	SSG	6	6	6	7	7	7	7	7	8
Fuels Journeyman	2F051	SRA	10	10	11	11	11	12	12	12	12
Fuels Apprentice	2F031	A1C	10	11	11	11	12	12	13	14	14
Information Mgmt Jrnymn	3A051	SSG									
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			34	35	36	37	38	39	40	41	42

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT	1	1	1	1	1	1	1	1	1
Fuels Manager	2F000	CMS									
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	2	2	2	2	3	3	3	3	3
Fuels Craftsman	2F071	TSG	3	4	4	4	4	4	4	4	4
Fuels Journeyman	2F051	SSG	8	8	9	9	9	9	9	9	9
Fuels Journeyman	2F051	SRA	13	13	13	13	13	14	14	15	15
Fuels Apprentice	2F031	A1C	14	14	14	15	15	15	16	16	17
Information Mgmt Jrnymn	3A051	SSG									
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			43	44	45	46	47	48	49	50	51

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FUELS MANAGEMENT FLIGHT/41D1	2426.57 - 21210.79

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT	1	1	1	1	1	1	1	1	1
Fuels Manager	2F000	CMS									
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	3	3	3	3	3	3	3	3	3
Fuels Craftsman	2F071	TSG	4	4	4	5	5	5	5	5	5
Fuels Journeyman	2F051	SSG	9	10	10	10	10	10	11	11	11
Fuels Journeyman	2F051	SRA	16	16	16	16	17	17	17	17	18
Fuels Apprentice	2F031	A1C	17	17	18	18	18	19	19	20	20
Information Mgmt Jrnymn	3A051	SSG									
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			52	53	54	55	56	57	58	59	60

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT	1	1	1	1	1	1	1	1	1
Fuels Manager	2F000	CMS								1	1
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	3	3	3	3	3	3	3	3	4
Fuels Craftsman	2F071	TSG	5	5	5	5	5	5	6	6	6
Fuels Journeyman	2F051	SSG	11	11	12	12	12	12	12	12	12
Fuels Journeyman	2F051	SRA	18	19	19	20	20	21	21	21	21
Fuels Apprentice	2F031	A1C	21	21	21	21	22	22	22	22	22
Information Mgmt Jrnymn	3A051	SSG									
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			61	62	63	64	65	66	67	68	69

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FUELS MANAGEMENT FLIGHT/41D1	2426.57 - 21210.79

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT	1	1	1	1	1	1	1	1	1
Fuels Manager	2F000	CMS	1	1	1	1	1	1	1	1	1
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	4	4	4	4	4	4	4	4	4
Fuels Craftsman	2F071	TSG	6	6	6	6	6	6	7	7	7
Fuels Journeyman	2F051	SSG	13	13	13	13	14	14	14	14	14
Fuels Journeyman	2F051	SRA	21	22	22	22	22	22	22	23	23
Fuels Apprentice	2F031	A1C	22	22	22	23	23	24	24	24	25
Information Mgmt Jrnymn	3A051	SSG			1	1	1	1	1	1	1
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			70	71	72	73	74	75	76	77	78

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT	1	1	1	1	1	1	1	1	1
Fuels Manager	2F000	CMS	1	1	1	1	1	1	1	1	1
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	4	4	4	4	5	5	5	5	5
Fuels Craftsman	2F071	TSG	7	7	7	7	7	7	7	7	7
Fuels Journeyman	2F051	SSG	15	15	15	15	15	16	16	16	16
Fuels Journeyman	2F051	SRA	23	24	24	25	25	25	25	26	26
Fuels Apprentice	2F031	A1C	25	25	26	26	26	26	27	27	28
Information Mgmt Jrnymn	3A051	SSG	1	1	1	1	1	1	1	1	1
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			79	80	81	82	83	84	85	86	87

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AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT	1	1	1	1	1	1	1	1	1
Fuels Manager	2F000	CMS	1	1	1	1	1	1	1	1	1
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	5	5	5	5	5	5	5	5	5
Fuels Craftsman	2F071	TSG	8	8	8	8	8	8	8	8	8
Fuels Journeyman	2F051	SSG	16	17	17	17	17	17	17	18	18
Fuels Journeyman	2F051	SRA	26	26	27	27	28	28	29	29	29
Fuels Apprentice	2F031	A1C	28	28	28	29	29	30	30	30	31
Information Mgmt Jrnymn	3A051	SSG	1	1	1	1	1	1	1	1	1
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			88	89	90	91	92	93	94	95	96

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT	1	1	1	1	1	1	1	1	1
Fuels Manager	2F000	CMS	1	1	1	1	1	1	1	1	1
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	5	5	5	5	5	5	6	6	6
Fuels Craftsman	2F071	TSG	8	8	8	8	9	9	9	9	9
Fuels Journeyman	2F051	SSG	18	18	19	19	19	19	19	19	19
Fuels Journeyman	2F051	SRA	30	30	30	31	31	31	31	32	32
Fuels Apprentice	2F031	A1C	31	32	32	32	32	33	33	33	34
Information Mgmt Jrnymn	3A051	SSG	1	1	1	1	1	1	1	1	1
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			97	98	99	100	101	102	103	104	105

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WORK CENTER/FAC	**APPLICABILITY MAN-HOUR RANGE**
FUELS MANAGEMENT FLIGHT/41D1	2426.57 - 21210.79

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ									
Supply Operations Officer	23S3	CPT	1	1	1	1	1	1	1	1	1
Fuels Manager	2F000	CMS	1	1	1	1	1	1	1	1	1
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	6	6	6	6	6	6	6	6	6
Fuels Craftsman	2F071	TSG	9	9	9	9	9	9	9	10	10
Fuels Journeyman	2F051	SSG	20	20	20	20	20	21	21	21	21
Fuels Journeyman	2F051	SRA	32	33	33	34	34	34	35	35	35
Fuels Apprentice	2F031	A1C	34	34	35	35	36	36	36	36	37
Information Mgmt Jrnymn	3A051	SSG	1	1	1	1	1	1	1	1	1
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			106	107	108	109	110	111	112	113	114

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ	1	1	1	1	1	1	1	1	1
Supply Operations Officer	23S3	CPT									
Fuels Manager	2F000	CMS	1	1	1	1	1	1	1	1	1
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	6	6	6	6	7	7	7	7	7
Fuels Craftsman	2F071	TSG	10	10	10	10	10	10	10	10	11
Fuels Journeyman	2F051	SSG	21	22	22	22	22	22	23	23	23
Fuels Journeyman	2F051	SRA	36	36	36	37	37	37	37	38	38
Fuels Apprentice	2F031	A1C	37	37	38	38	38	39	39	39	39
Information Mgmt Jrnymn	3A051	SSG	1	1	1	1	1	1	1	1	1
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			115	116	117	118	119	120	121	122	123

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STANDARD MANPOWER TABLE

WORK CENTER/FAC	**APPLICABILITY MAN-HOUR RANGE**
FUELS MANAGEMENT FLIGHT/41D1	2426.57 - 21210.79

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
Supply Mgmt Staff Officer	23S4	MAJ	1	1	1	1	1	1	1	1	1
Supply Operations Officer	23S3	CPT									
Fuels Manager	2F000	CMS	1	1	1	1	1	1	1	1	1
Fuels Superintendent	2F091	SMS	1	1	1	1	1	1	1	1	1
Fuels Craftsman	2F071	MSG	7	7	7	7	7	7	7	7	7
Fuels Craftsman	2F071	TSG	11	11	11	11	11	11	11	11	11
Fuels Journeyman	2F051	SSG	23	23	24	24	24	24	25	25	25
Fuels Journeyman	2F051	SRA	38	39	39	39	40	40	40	41	41
Fuels Apprentice	2F031	A1C	40	40	40	41	41	42	42	42	43
Information Mgmt Jrnymn	3A051	SSG	1	1	1	1	1	1	1	1	1
Information Mgmt Jrnymn	3A051	SRA	1	1	1	1	1	1	1	1	1
TOTAL			124	125	126	127	128	129	130	131	132

AIR FORCE SPECIALTY TITLE	**AFSC**	**GRADE**	**MANPOWER REQUIREMENT**								
TOTAL											

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APPROVED VARIANCES

FUELS MANAGEMENT

A3.1. Title. Positive/Negative Mission Variance for Gallons Of Product Received.

A3.1.1. **Definition.** It adjusts the core +/- for the ratio of gallons received to aircraft equivalent. A core base will receive 2.6 million gallons of product per month. Any deviation from the core results in a positive or negative variance.

A3.1.2. **Impact.** Variable. Computed as follows:

★A3.1.2.1. Divide the number of gallons received per month by the aircraft equivalent. This information may be obtained at MAJCOM level through DFAMS, 1884 Report or AF Form 1237, **Inventory (Fuels/Missile Propellants)**. Take a monthly average of all products received/issued using the most recent six months of peacetime data.

A3.1.2.2. Divide the result from A3.1.2.1. by 10,000.

A3.1.2.3. Insert the value from A3.1.2.2. into the X value of the equation Y = -13 + 5X, and solve for Y. This is the fractional manpower that will be added or subtracted from the core.

A3.1.3. **Applicability.** This variance applies to bases that use this standard. It does not apply to bases using the equation in paragraph 2.3.3.

A3.2. Title. Positive/Negative Mission Variance for Fuels Issued By Tank Truck.

A3.2.1. **Definition.** It adjusts the core +/- based upon the percentage of gallons issued by tank truck. A core base will issue 65% of its fuel by tank truck. Any deviation from the core results in a positive or negative variance. The variance is a percentage of the manpower earned in the core +/- and variance 1 equations.

A3.2.2. **Impact.** Variable. Computed as follows:

★A3.2.2.1. Multiply the percentage of gallons issued by truck per month by 100 (e.g., if 20% of gallons is issued by truck, the result is .20 x 100 = 20). Gallons issued by tank truck may be obtained at MAJCOM level through FAMS, Selected Parameters Report. Take a monthly average of all products received/issued using the most recent six months of peacetime data.

A3.2.2.2. Insert the value from A3.2.2.1. into the X value of one of the following equations: P = -6.5 + .10X, when X is less than 65; P = -13 + .2X, when X is greater than or equal to 65. P is the percentage of manpower to be added or subtracted.

A3.2.2.3. Sum the core +/- with the result of variance A3.1. (Mission Variance for Gallons of Product Received.)

A3.2.2.4. Multiply A3.2.2.3 by the P-result from A3.2.2.2. This is the fractional manpower that will be added or subtracted from the core.

A3.2.3. **Applicability.** This variance applies to bases that use this standard. It does not apply to bases using the equation in paragraph 2.3.3.

A3.3. Title. Positive/Negative Mission Variance for Mode Of Receipt.

A3.3.1. **Definition.** It adjusts the core +/- for mode of product receipt. A core base will receive 15% of its fuel by tank truck or rail car. Any deviation from the core results in a positive or negative variance. The variance is a percentage of the manpower earned in the core +/- and variance A3.1. equation.

A3.3.2. **Impact.** Variable. Computed as follows:

★A3.3.2.1. Multiply percentage of gallons received per month by tank truck and/or rail car by 100 (e.g., if 20% of gallons is received by tank truck and/or rail car, the result is .20 x 100 = 20). Gallons received by truck and/or rail car may be obtained at MAJCOM level through DFAMS, 1884 Report. Take a monthly average of all products received/issued using the most recent six months of peacetime data.

A3.3.2.2. Insert the value from A3.3.2.1. into the X value of one of the following equations: P = -4.5 + .3X, for X less than 15; P = -1.8 + .12X, for X greater than or equal to 15. P is the percentage of manpower to be added or subtracted.
A3.3.2.3. Sum the core +/- with the result of variance A3.1.
A3.3.2.4. Multiply A3.3.2.3. by the P-result from A3.3.2.2. This is the fractional manpower that will be added or subtracted from the core.

A3.3.3. **Applicability.** This variance applies to bases that use this standard. It does not apply to bases using the equation in paragraph 2.3.3.

A3.4. Title. Positive Mission Variance for Cryogenics Production Plants.

A3.4.1. **Definition.** Additional manpower required to operate cryogenics production facilities.

★A3.4.2. **Applicability and Impact:**

	APPLICABILITY:	**IMPACT:**
	Andersen	+9 manpower requirements
★	Aviano	+11 manpower requirements
	Howard	+13 manpower requirements
	Incirlik	+10 manpower requirements
	Kadena	+13 manpower requirements
	Kunsan	+11 manpower requirements
	Lajes	+7 manpower requirements
	Misawa	+10 manpower requirements
	Osan	+11 manpower requirements
★	Ramstein	+10 manpower requirements
	Spangdahlem	+10 manpower requirements
★	Yokota	+4 manpower requirements

A3.5. Title. Positive Mission Variance for Cryogenics Maintenance and Distribution.

A3.5.1. **Definition.** Additional manpower required to maintain and distribute cryogenics.

A3.5.2. **Applicability and Impact:**

	APPLICABILITY:	**IMPACT:**
	Elmendorf AFB	+6 manpower requirements
	Eglin AFB	+1 manpower requirement
	Edwards AFB	+4 manpower requirements
★	Hurlburt AFB	+50.74 man-hours

A3.6. Title. Positive Environmental Variance for Snow Removal.

A3.6.1. **Definition.** Additional manpower required for removal of snow from the lateral control pits.

A3.6.2. **Impact.** +46 man-hours.

★A3.6.3. **Applicability.** Eielson, Ellsworth, Elmendorf, Grand Forks, Malmstrom, Minot, Mt Home, and Offutt.

A3.7. Title. Positive Environmental Variances for Subzero Weather Swap-Out.

A3.7.1. **Definition.** Additional manpower required because of the two-man policy during subzero weather conditions.

A3.7.2. **Impact.** +48 man-hours.

★A3.7.3. **Applicability.** Eielson, Ellsworth, Elmendorf, Grand Forks, Malmstrom, Minot, and Offutt.

★**A3.8. Title.** Positive Mission Variance for Special Fuels Receipt and Testing.

★A3.8.1. **Definition.** Additional manpower required for special fuels receipt, sampling, and testing.

★A3.8.2. **Applicability and Impact:**

	APPLICABILITY:	**IMPACT:**
	Beale AFB	+54 man-hours
	Edwards AFB	+1 manpower requirement
★	Mildenhall UK	+41.78 man-hours
★	Osan AB	+.59 manpower requirement

★**A3.9. Title.** Positive Technological Variance for Excessive Water Removal.

A3.9.1. **Definition.** Additional manpower required to remove excessive water from lateral control pits, outlets and bulk storage facilities.

★A3.9.2. **Applicability and Impact:**

	APPLICABILITY:	**IMPACT:**
	Andersen	+570 man-hours
	Barksdale	+522 man-hours
	Beale	+115 man-hours
	Eielson	+300 man-hours
	Ellsworth	+300 man-hours
	Elmendorf	+300 man-hours
	Hickam	+300 man-hours
	Howard	+132 man-hours
	Kadena	+300 man-hours
★	MacDill	+160.7 man-hours
	McGuire	+313.06 man-hours
	Malmstrom	+300 man-hours
	Minot	+300 man-hours
	Mt Home	+300 man-hours
	Offutt	+55 man-hours
★	Ramstein	+380.86 man-hours

A3.10. Title. Positive Mission Variance for Presidential Fuels Lab.

A3.10.1. **Definition.** Additional manpower required to accommodate special fuel tests performed in support of the President and Defense Fuel Supply Center.

A3.10.2. **Impact.** +257 man-hours

A3.10.3. **Applicability.** Andrews AFB.

A3.11. Title. Positive Mission Variance for Air Warrior Support.

A3.11.1. **Definition.** Additional manpower required to support Air Warrior.

A3.11.2. **Impact.** +4 manpower requirements.

A3.11.3. **Applicability.** Nellis AFB.

A3.12. Title. Positive Mission Variance for Increased FCC Support.

A3.12.1. **Definition.** Additional manpower required to support multiple fuels control centers/increased simultaneous operations.

A3.12.2. **Applicability and Impact:**

APPLICABILITY:	**IMPACT:**
Eglin	+2 manpower requirements
Elmendorf	+2 manpower requirements
Kadena	+2 manpower requirements
Nellis	+2 manpower requirements

A3.13. Title. Positive Mission Variance for Forward Area Refueling and Rearming Point (FARRP) Program.

A3.13.1. **Definition.** Additional manpower required to support the FARRP program.

A3.13.2. **Impact.** +3 manpower requirements.

★A3.13.3. **Applicability.** Mildenhall, Charleston, Hurlburt, Kadena and Dover.

A3.14. Title. Positive Mission Variance for Fuels Mobility Support Equipment (FMSE).

★A3.14.1. **Definition.** Additional manpower required to support/maintain FMSE, taskings and FMSE Schoolhouse (MacDill).

★A3.14.2. **Applicability and Impact:**

APPLICABILITY:	**IMPACT:**
★ MacDill	+12 manpower requirements
★ Ramstein AB	+239.93 man-hours
★ Aviano AB	+417.82 man-hours
★ Incirlik AB	+446.75 man-hours
Yokota AB	+7 manpower requirements

A3.15. Title. Positive Mission Variance for Product Rotation at Andy III Tank Farm.

A3.15.1. **Definition.** Large inventories of fuel products at Andy III tank farm must be rotated on a monthly basis.

A3.15.2. **Impact.** +48 man-hours.

A3.15.3. **Applicability.** Andersen AFB.

★**A3.16. Title.** Positive Mission Variance for Cross-Country Pipeline Inspection, Operation, and Maintenance.

A3.16.1. **Definition.** Badly deteriorated pipeline requires daily inspection to identify leaks and other pipeline problems.

★A3.16.2. **Applicability and Impact:**

	APPLICABILITY:	**IMPACT:**
	Andersen AFB	+175 man-hours
	Incirlik AB	+175 man-hours
★	Osan AB	+.48 manpower requirements

A3**.17. Title.** Positive Mission Variance for Support of Off-Island Geographically Separated Units (GSUs).

★A3.17.1. **Definition.** Provides quality control and inspection, and accounting and administration support for Johnston Atoll.

★A3.17.2. **Impact.** +25 man-hours.

A3.17.3. **Applicability.** Hickam AFB.

A3.18. Title. Positive Mission Variance for Fuels Distribution for Base Housing Areas.

A3.18.1. **Definition.** Additional manpower required to deliver diesel fuel to base housing units, dormitories, and other facilities not connected to the base power plant.

★A3.18.2. **Applicability and Impact:**

	APPLICABILITY:	**IMPACT:**
★	Misawa AB	+596 man-hours
★	Incirlik AB	+115.7 man-hours

A3.19. Title. Positive Mission Variance for Navy Support.

A3.19.1. **Definition.** Additional manpower required for Host Tenant Support Agreement with the Navy.

A3.19.2. **Impact.** +7 manpower requirements.

A3.19.3. **Applicability.** Kadena AB, Japan.

A3.20. Title. Positive Mission Variance for TDY Support.

A3.20.1. **Definition.** Additional manpower required for support to TDY missions.

★A3.20.2. **Applicability and Impact:**

	APPLICABILITY:	**IMPACT:**
★	Beale AFB, CA	+190 man-hours
★	Hurlburt AFB, FL	+136.45 man-hours

A3.21. Title. Positive Mission Variance for Defuel of Deactivated Aircraft.

A3.21.1. **Definition.** Additional manpower required to provide defueling support for aircraft being decommissioned.

A3.21.2. **Impact.** +22.7 man-hours.

A3.21.3. **Applicability.** Davis Monthan AFB, AZ.

A3.22. Title. Positive Mission Variance for Cryogenics Production Technical Residency.

A3.22.1. **Definition.** Additional manpower required to provide worldwide technical support for cryogenics production operations.

★ A3.22.2. **Impact.** +7 manpower requirements.

★A3.22.3. **Applicability.** MacDill AFB, FL.

A3.23. Title. Positive Mission Variance for Fuels Mobility Support Equipment (FMSE) War Reserve Spares Kit (WRSK).

A3.23.1. **Definition.** Additional manpower required to manage FMSE WRSK.

A3.23.2. **Impact.** +2 manpower requirements.

★A3.23.3. **Applicability.** MacDill AFB, FL.

A3.24. Title. Positive Mission Variance for Travel to and Operation of Geographically Separated Fuel Storage Systems.

A3.24.1. **Definition.** Additional manpower required for travel time between bulk storage systems and an additional person required to manipulate valves and monitor fuel transfer operations.

★A3.24.2. **Applicability and Impact:**

	APPLICABILITY:	**IMPACT:**
	Howard AFB, CZ	+224 man-hours
★	Elmendorf AFB, AK	+160.7 man-hours

A3.25. Title. Positive Technological Variance for Tanker/Barge Off-Loading Operations.

A3.25.1. **Definition.** Additional manpower required to off-load fuel from tankers/barges.

A3.25.2. **Applicability and Impact:**

APPLICABILITY:	**IMPACT:**
Langley AFB	+90 Man-hours
Eglin AFB	+229.15 Man-hours
Hurlburt AFB	+133 Man-hours

A3.26. Title. Positive Mission Variance for Geographically Separated Units.

A3.26.1. **Definition.** Additional manpower required to support fuels activities for off-base locations.

A3.26.2. **Impact**. +2 manpower requirements.

A3.26.3. **Applicability.** Eglin AFB, FL.

A3.**27. Title.** Positive Mission Variance for Defuel Of Test Aircraft to Perform Weight And Balance Tests and Anechoic Chamber Tests.

A3.27.1. **Definition.** Additional manpower required for defueling support.

A3.27.2. **Impact**. +1 manpower requirement.

A3.27.3. **Applicability.** Edwards AFB, CA.

A3.28. Title. Negative FASCAP, Technological Variance for Video Presentation System (AMC FASCAP #92-016).

A3.28.1. **Definition.** Reduce authorization to account for purchase of computer-generated video presentation system. The system provides a faster, more manageable, and more economical method of maintaining the training program.

A3.28.2 **Impact:**

AMOUNT	**GRADE**	**AFSC**
-1	SRA	2FO51

★A3.28.3. **Applicability.** Applies to 375 SUPS, Scott AFB IL. The economic life of the above equipment is 4 years.

PROCESS ANALYSIS SUMMARY

FUELS MANAGEMENT

PROCESS TITLE	PROCESS TIME	PROJECTED WORKLOAD	FRACTIONAL MANPOWER
Performs Fuels Management	321.40 MHRS	FIXED	2.000
Stores and Distributes (2.6 mil gallons) Fuel	7231.50 MHRS	VARIABLE	45.000
Performs Quality Control and Inspection	642.80 MHRS	FIXED	4.000
Performs Accounting and Administration	642.80 MHRS	FIXED	4.000
Operates Fuels Control Center	1446.30 MHRS	FIXED	9.000
Performs Fuels Operations	160.70 MHRS	FIXED	1.000
Supports Fuels Flight	321.40 MHRS	FIXED	2.000
TABLE FRACTIONAL MANPOWER 10766.90			**67.000**

NOTE: The processes are listed in order of decreasing priority.

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AIRCRAFT EQUIVALENTS

FIGHTER: (CORE = 72)

F-4	F-111	T-38	X-29	C-26	A-7
F-15	F-117	T-41	C-12	C-27	A-10
F-16	T-1	U-2	C-20	C-29 HELICOPTERS	
F-22	T-37	TR-1	C-21	CT-39	

BOMBER/TANKER/STRAT AIRLIFT: (CORE = 38)

B-1	E-4	C-9	C-25
B-2	E-8	KC-10	KC-135
B-52	E-18	C-17	C-141
E-3	C-5	C-22	T-43

TACTICAL AIRLIFT: (CORE = 48)

C-23	C-121	C-130	E-9